


Los Alamos Women in Science

Northern Chapter of the New Mexico Network for Women in Science and Engineering
Present

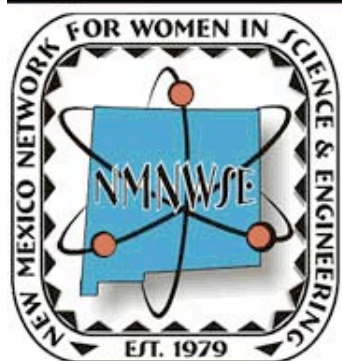


nmnwse.org/eyh


EXPANDING YOUR HORIZONS™

**in science and mathematics
technical career workshops for young women
& associated TEACHER CONFERENCE**

3-15-06 8-3:30 UNM-LA grades 8-10



LAWIS EYH06 & TC06
co-sponsored by
LANL and UNM-LA.
TC-06 co-hosted
by AAUW-LA.
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McCune Foundation.

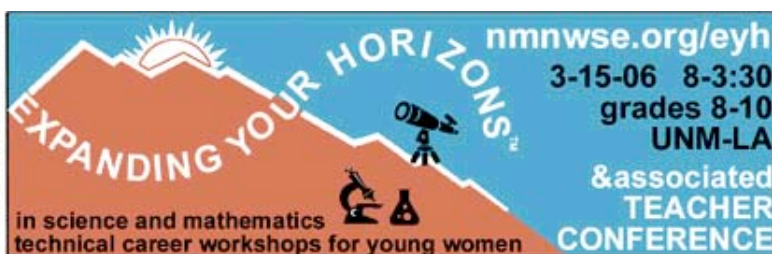


Attendance is limited: Early registration is strongly encouraged!
EYH06 targets 8-10 grade girls. TC06 is open to all educators.

EXPANDING YOUR HORIZONS WORKSHOP GOALS:

- To increase young women's interest in and awareness of mathematics, science, and other nontraditional professions.
- To provide students an opportunity to meet and form personal contacts with women working in traditionally male occupations.





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The **2006 Expanding Your Horizons Conference (EYH06)** and associated **Teacher Conference (TC06)** will be held on **Wednesday, March 15**, 8:00 am to 3:30 pm. We are asking you to place this important date on your calendar.

EYH06 and TC06 will be held in a new location this year - the Los Alamos Campus of the University of New Mexico. We feel this new setting will enhance the experience for all attendees.

Registration for EYH06 and TC06 is free, and lunch plus morning and afternoon snacks will be provided. Further information is enclosed.

2006 Expanding Your Horizons Conference (EYH06):

EYH06 offers **students in grades 8, 9, and 10** a unique opportunity to explore careers in science, engineering, and mathematics. We invite each school to bring **ten young women**, and are enclosing ten registration forms. We are targeting having 150 participants this year; as space is limited, if you wish to bring more than ten students please include a note as to why the additional students might particularly benefit from attending EYH06.


For students attending EYH06, the day will begin with a team building exercise - the winning team of last year's "Column Challenge" built a structure which could support a person with only a few pieces of paper and tape! Then the students will break up into small "hands-on" workshops conducted by outstanding women scientists to give the students a taste of working in that specialty. At noon there will be the keynote address by Claudia Lewis, a geologist at Los Alamos National Laboratory, whose talk will described her convoluted path from science phobia to accomplished scientist. In the afternoon, the students will break out into a second small "hands-on" workshop. The day will finish with a college and career fair where the students will have an opportunity to speak with college recruiters and browse career booths.

2006 Teacher Conference (TC06):

As women scientists, we are aware of the positive influence teachers have on career choices made by students. In recognition of these efforts, in parallel with EYH06 we are hosting a **same-day Teacher Conference (TC06)**, co-hosted by the Los Alamos Branch of the American Association of University Women Inc. **Registration for TC06 is open to all educators**, but we especially invite those teachers and adult sponsors who are accompanying students attending EYH06. Just complete and return the Teacher Conference Registration portion of the enclosed Adult Sponsor Form.



Educators attending TC06 will join the students for the keynote speaker and the college and career fair. The educators will have a separate morning session which will feature speakers and demonstrations that will give teachers something to take back to the classroom. The afternoon session will be a trip to the Bradbury Science Museum with a special program for the teachers.

 **Registrations for EYH06 and TC06** may be returned by regular mail, FAX, or email. **Replies by March 1 get first priority**, and participants who register by March 1st will be sent confirmation of their registration, along with any additional maps or program updates. Registrations submitted after March 1st will be accepted on a space available basis; we recommend FAX for late registrations. Late registration closes on March 10th. After March 10th, please call to inquire if space is still available for on-site registration. **Note: Student registration forms require signature from student's parent or guardian.** While we encourage the participants to stay for the entire day, we can accommodate those whose schedules do not allow this. However, if you leave early you **must check out** at the registration desk.

This will be our 28th Annual Expanding Your Horizons Conference sponsored by the Northern Chapter (LAWIS) of the New Mexico Network for Women in Science and Engineering (NMNWSE). We are joined this year as EYH06 and TC06 co-sponsors by Los Alamos National Laboratory and the University of New Mexico Los Alamos, and as TC06 co-hosts by the Los Alamos Branch of the American Association of University Women Inc. All four organizations are eager to expand your horizons and invite you and/or your students to join us and other guests from Northern New Mexico for an enriching day!

If you have any questions, our contact information is below, and on-line information can be found at <http://nmnwse.org/lawis/eyh>. Hope to see you on March 15!

EYH06 Chair:

Aviva Sussman
EES-11, MS D443
Los Alamos National Lab.
Los Alamos, NM 87545
spring@lanl.gov
Phone: (505) 667-1495
Fax: (505) 665-3285

TC06 LAWIS Co-Chair:

Mary S. Campbell
P.O. Box 220
Dixon, NM 87527
bmcampbell@newmexico.com
Phone: (505) 579-9141

TC06 AAUW Co-Chair:

Marilyn Minshall - AAUW
536 Brighton
Los Alamos, NM 87544
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Phone: (505) 672-3499

EYH06/TC06 Registrar:

Angela V. Trujillo
ADWEM-AB, MS E534
Los Alamos National Lab.
Los Alamos, NM 87545
angelavt@lanl.gov
Phone: (505) 665-3027
Fax: (505) 606-0805



LAWIS EYH page: <http://nmnwse.org/lawis/eyh>

LAWIS home page: <http://nmnwse.org/lawis>

NMNWSE EYH home page: <http://nmnwse.org> - lists all three EYH conferences in New Mexico

Expanding Your Horizons conferences in New Mexico are licensed by NMNWSE from the national Expanding Your Horizons Network and are supported by donations from the McCune Charitable Foundation, Honeywell International Foundation, the PNM Foundation, Intel Corporation, and many other individuals and organizations - a complete list will be provided in the EYH06/TC06 program brochure, available mid-March.

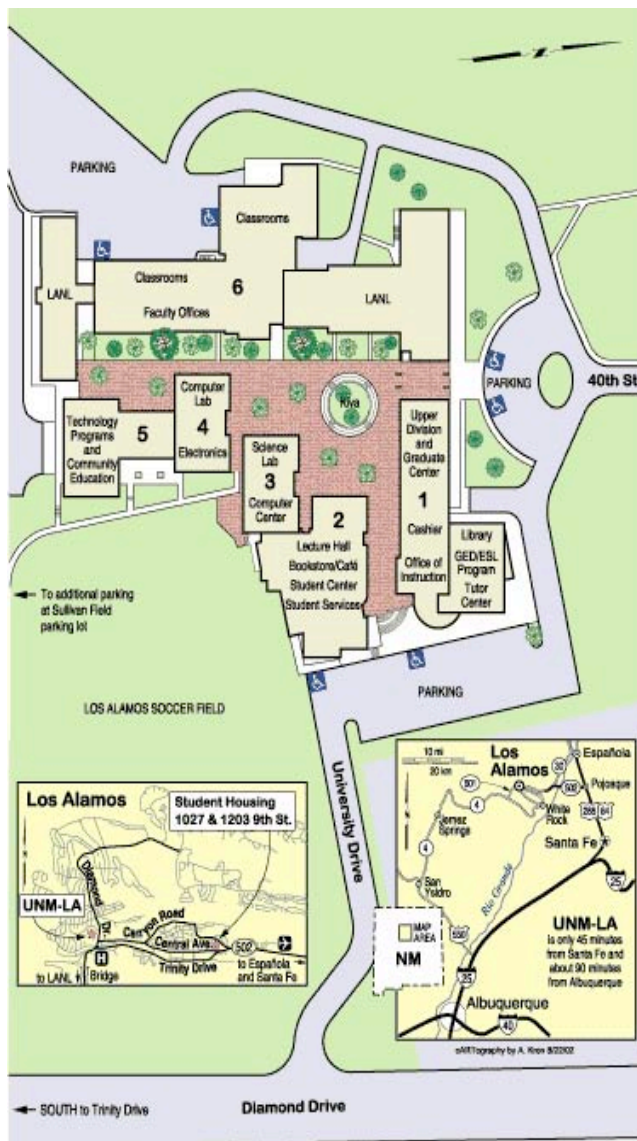
👉 EYH06/TC06 LOCATION 👈

The LAWIS Expanding Your Horizons, EYH06, and associated Teacher conference, TC06, will be held on Wednesday, March 15, at University of New Mexico Los Alamos (UNM-LA), Los Alamos, NM. UNM-LA is on Diamond north of the Diamond/Trinity intersection, across from Los Alamos High School. We will have signs and people in the parking lot to help direct you / your students to the EYH06/TC06 registration desk. **If you have students attending EYH06:** help them sign in before proceeding to the TC06 registration area.

UNM-LA is in Los Alamos townsite



Area Map



University of New Mexico-Los Alamos
Campus Map

For more information contact:

EYH06 Chair:

Aviva Sussman
EES-11, MS D443
Los Alamos National Lab.
Los Alamos, NM 87545
spring@lanl.gov
Phone: (505) 667-1495
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TC06 LAWIS Co-Chair:

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Dixon, NM 87527
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Phone: (505) 579-9141

TC06 AAUW Co-Chair:

Marilyn Minshall - AAUW
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Phone: (505) 672-3499

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ACKNOWLEDGEMENTS

The LAWIS EYH06 and TC06 are co-sponsored by Los Alamos National Laboratory and the University of New Mexico Los Alamos. TC06 is co-hosted by the Los Alamos Branch of the American Association of University Women Inc. We would also like to thank the many other individuals and organizations which support EYH06 and TC06 locally - a complete list of will be provided in the program brochure, available mid-March.



Expanding Your Horizons conferences in New Mexico are licensed by the New Mexico Network for Women in Science and Engineering (NMNWSE) from the national Expanding Your Horizons Network and are supported by donations from the McCune Charitable Foundation, Honeywell International Foundation, the PNM Foundation, and Intel Corporation. National EYH Sponsors are listed at <http://www.expandingyourhorizons.org/AboutUs/Sponsors.html>.

- **Careers: Exploring the Possibilities**

<http://nmnwse.org/career.htm>

Our Careers Booklet, created and published by NMNWSE for our EYH workshops. (A copy is given to all EYH student participants.)

- Other NMNWSE Chapter EYH Workshops:

<http://nmnwse.org/eyh>

- Expanding Your Horizons Network's National EYH page:

<http://www.expandingyourhorizons.org>

EYH06 is licensed by NMNWSE from the national EYH Network.

- Links to other EYH/student/mentoring/science sites

<http://nmnwse.org/EYH/EYHlinks.htm>

EYH06/TC06 home page: <http://nmnwse.org/lawis/eyh>

LAWIS home page: <http://nmnwse.org/lawis>

NMNWSE home page: <http://nmnwse.org>


Expanding Your Horizons Student Workshop (EYH06), March 15, 2006

University of New Mexico, Los Alamos Campus, Los Alamos, NM

<http://nmnwse.org/lawis/eyh>

- **EYH06 Workshop Invitation Letter**
http://t1web.lanl.gov/lawis/eyh/NEYH06+TC06_invite.html
- **EYH06 Student Registration Form**
http://t1web.lanl.gov/lawis/eyh/NEYH06_regis.html
- **EYH06 Adult Sponsor Form**
http://t1web.lanl.gov/lawis/eyh/TC06_regis+NEYH06_sponsor.html
- **EYH06 Workshop Program**
http://t1web.lanl.gov/lawis/eyh/NEYH06_program.html

EYH06 offers students in grades 8, 9, and 10 a unique opportunity to explore careers in science, engineering, and mathematics.

 We have identified an exciting keynote speaker: Claudia Lewis, a geologist at Los Alamos National Laboratory, whose talk will describe her convoluted path from science phobia to accomplished scientist. We hope that many of the young women attending EYH06 will also find their way to highly satisfying and rewarding careers as women scientists, engineers, doctors -- or any of the many other fields education opens for them!


Teacher Conference (TC06) , March 15, 2006

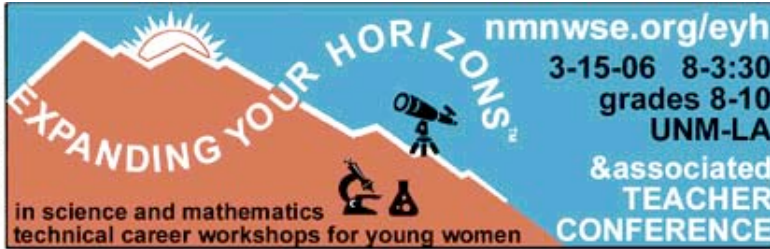
Departs from EYH06 Registration Desk

<http://nmnwse.org/lawis/eyh> Co-hosted by AAUW-LA

- **Teacher Conference 2006 Invitation Letter**
http://t1web.lanl.gov/lawis/eyh/NEYH06+TC06_invite.html
- **Teacher Conference 2006 Registration Form**
http://t1web.lanl.gov/lawis/eyh/TC06_regis+NEYH06_sponsor.html
- **Teacher Conference 2006 Program**
http://t1web.lanl.gov/lawis/eyh/TC06_program.html

As women scientists we are aware of the positive influence teachers have on career choices made by students, especially by encouraging female students to pursue engineering, math, science, and technology careers. We hope all adult sponsors will register for TC06. Note you do not need to have students attending EYH06 to register for TC06 - it is open to any interested parent or educator.

 We are targeting having 150 EYH06 and 30 TC06 participants this year. Registrations for EYH06 and TC06 may be returned by regular mail, FAX, or email, and will be accepted until all slots are filled. Replies by March 1 get first priority, and participants who register by March 1st will be sent confirmation of their registration, along with any additional maps or program updates. Registrations submitted after March 1st will be accepted on a space available basis; we recommend FAX for late registrations. Late registration closes on March 10th. After March 10th, please call the Registrar to inquire if space is still available for on-site registration.



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EYH06 TENTATIVE PROGRAM

- 8:00 - 8:30 **Registration**
and Morning Snack
- 8:30 - 8:45 **Welcome**
- 8:45 - 9:50 **Team Activity**
- 10:00 - 11:10 **Student Workshop One**
- 11:15 - 12:00 **Lunch**
11:45 - Team Activity Awards
- 12:00 - 12:50 **Keynote Address**
Claudia Lewis, Geologist
From Science Phobia to Scientist: Advice from a Black Sheep (title tentative)
- 1:00 - 2:10 **Student Workshop Two**
- 2:15 - 3:30 **College and Career Information Session**
and Afternoon Snack
- 3:30 **Departure**

Lunch will be provided and you are encouraged to stay for the entire day. The talk at 12:00 noon by Claudia Lewis should be a real treat. We hope that many of the young women attending EYH06 will also find their way to highly satisfying and rewarding careers as women scientists, engineers, doctors -- or any of the many other fields education opens for them!

Adult sponsors please note:

There will be a separate program for the adult sponsors who choose to accompany the students to EYH06. The keynote speaker and the college and career session at the end of the day will be joint with the students. An invitation letter and separate registration materials are posted on the EYH06 website, or contact the Teacher Conference Coordinators Mary S. Campbell, (505) 579-9141, and Marilyn Minshall, (505) 672-3499, for information.

EYH Keynote speaker

Claudia Lewis, Geologist

Environmental Geology and Spatial Analysis Group
Earth and Environmental Sciences Division
Los Alamos National Laboratory

From Science Phobia to Scientist: Advice from a Black Sheep

(title tentative)



Claudia Lewis

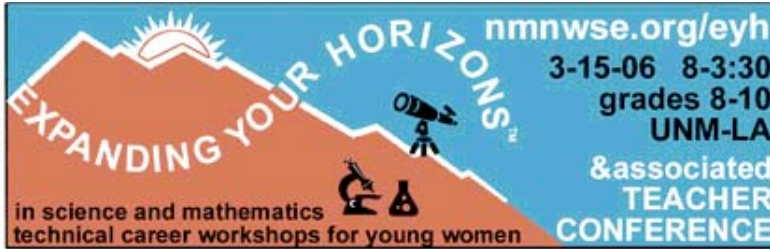
(Abstract tentative.) Everybody in my family does business. Among the five of us children (hardly children now that everyone is over 40), three have their own businesses - the family fundraising business, a landscape architectural firm, and an interior design business. And then there's me. I never had a paper route. I never sold anything door-to-door. And I'm a scientist.

The only scientific influence in my early life was living next door to a fraternity of the Rensselaer Polytechnic Institute. In high school, I mostly had really lousy math and science, although my chemistry teacher was an inspiration - he had recently finished a Ph.D. at Harvard and took several of us there during an Exploration Week to work on cataloguing references to specific astronomical observations in notebooks of the Harvard Observatory.

In college, I chickened out of majoring in geology because in my very first geology class the professor wrote some differential equations on the blackboard. I didn't even know what calculus was! So I majored in American Studies and focused on energy and environmental issues.

It wasn't until after college that I discovered I could do science. I took evening courses in college algebra, calculus(!!!), physical geology and chemistry at Santa Fe Community College and UNM-Los Alamos. After that, I knew I was ready to get the geology degree I always wanted. I ended up going to school through "26th grade" because I was starting effectively from zip. I persevered and now I have a Ph.D. in Geology from Harvard.

These days I work on seismic hazards in the vicinity of LANL, fracture systems and fluid flow, and various geologic field projects in Spain. In addition to my scientific work, I have many other interests. I was the founding President of the Board of the Pajarito Environmental Education Center, located here in Los Alamos, which serves as a resource for the interpretation and stewardship of the natural history and environment of Los Alamos County and the Jemez Mountains area. I am an avid skier and bicyclist I am learning how to weave. My husband is a talented builder, furniture craftsman, and painter. He sings with the Sangre de Cristo Chorale and serves on their board.



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TC06 TENTATIVE PROGRAM

- 8:00 - 8:30 **Registration** and Morning Snack
 If you have students: help them sign in for EYH06 first
- 8:30 -11:30 **Workshops and Presentations**
- 11:30 - 12:00 Lunch (Provided)
- 12:00 - 12:50 **EYH06 Keynote Speaker** (with Students)
- 12:50 - 2:30 **Bradbury Museum** (transportation provided)
- 2:30 - 3:30 **College and Career Information Session**
 and Afternoon Snack (with Students)
- 3:30 Departure

**Getting an Education
*Isn't Just Going To School***
Learning is a lifelong experience, with every day
offering new opportunities to explore your world.

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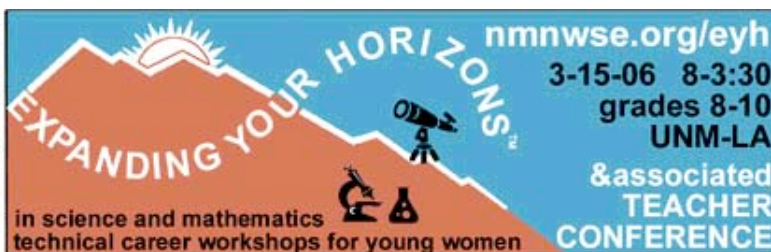


TC06 is co-hosted by the Los Alamos Branch of the American Association of University Women Inc.



Main EYH06 / TC06 Webpage: <http://nmnwse.org/lawis/eyh>

AAUW-LA Webpage: http://www.aauw-nm.org/los_alamos_index.html



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TC06 REGISTRATION / EYH06 SPONSOR INFORMATION

(Please type or Print clearly)

Adult Sponsors: All students attending EYH06 must have an adult sponsor, *e.g.* a teacher, counselor, parent, or guardian. The purpose of the adult sponsor is to have someone to contact should a question arise as to the eligibility of the student to attend EYH06, or to recommend the student if we are forced to choose between applicants due to space limitations. *The sponsors do not have to accompany their students to EYH06.* However, if you do, you can register for the same day Teacher Conference (TC06) using this form. Contact the Teacher Conference Chair for more information on TC06.

TC06 Registrants: If you do not have students attending EYH06, please skip the lines referring to students.

First Name:	Last Name:
Parent/Guardian ____ Teacher ____ Counselor ____ Other (specify) _____	
Evening Phone:	Email (if applicable):
School Name (if applicable):	
Principal's name (if applicable):	Daytime or School Phone:
School mailing address (EYH06 sponsor/TC06 registrant mailing address if not teacher or counselor):	
Are you registering for the Teacher Conference? Yes ____ No ____	
Name(s) of Student(s) you are sponsoring (if any):	
<i>(If more than 10, please list first the 10 candidates who would benefit most from EYH06. Continue on separate sheet if necessary)</i>	
Other Information you'd like us to consider:	
<i>(e.g., Special needs for self or student, Justification for more than 10 students. Continue on separate sheet if necessary)</i>	



Please send this form and the student registration(s) as soon as possible to:

Angela V. Trujillo, EYH06/TC06 Registrar **TEL: (505) 665-3027**
ADWEM-AB, MS E534 **FAX: (505) 606-0805**
Los Alamos National Laboratory **EMAIL: angelavt@lanl.gov**
Los Alamos, NM 87545

Registrations received by **March 1** receive first priority. Registrations submitted after that date will be accepted on a space available basis; we recommend FAX for late registrations. Late registration closes on March 10th. After March 10th, please call to inquire if space is still available for on-site registration. Please contact the EYH06/TC06 Registrar if you need more information about registration.

EYH06 Chair: Aviva Sussman, (505) 667-1495, spring@lanl.gov

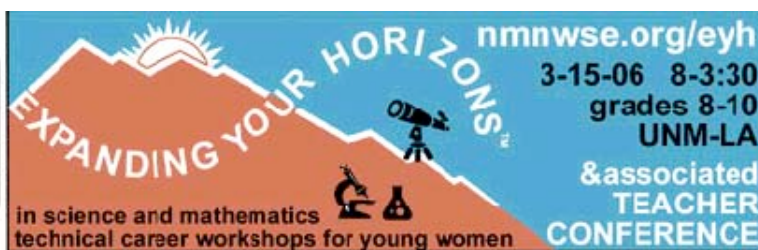
LAWIS TC06 Co-Chair: Mary S. Campbell, (505) 579-9141, bmcampbell@newmexico.com

AAUW-LA TC06 Co-Chair: Marilyn Minshall, (505) 672-3499, fsminc@losalamos-nm.com

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Main LAWIS/EYH06 Web Page: <http://nmnwse.org/lawis/eyh>



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STUDENT PARTICIPANT REGISTRATION FORM

(Please type or Print clearly)

First Name:		Last Name:	
Street Address:			
City:	State:	Zip:	
Telephone:		Grade: 8th - 10th receive priority	
School:			
Teacher or Adult Sponsor (<i>see Note on Adult Sponsor form</i>):			
Please indicate your general area(s) of interest: ___ Physical Sciences or Engineering ___ Biological or Medical Science ___ Math or Computer Sciences ___ Don't Know ___ Other (list below)			
Special Interests:			
Have you attended an EYH conference in the past? (___Yes / ___No) If yes, please note workshops attended:			
Special Needs or Accommodations, Dietary Preferences, or Other Information you would like us to consider:			



My child is in at least 8th grade and has my permission to attend Expanding Your Horizons. I give my permission for her to use public transportation if necessary to attend the workshops. I give my permission for her to be photographed for publicity purposes. In the event of any emergency while my child is attending EYH, I give my permission for her to receive emergency medical treatment and care. ***Registrations must be signed by a Parent or Guardian to be considered. If your child needs special accommodations (e.g. sign language interpreter), please be sure it is indicated above.***

Parent or Guardian (<i>please print name</i>):	Parent or Guardian signature:	Daytime phone in case of an emergency:
Alternate emergency contact:		
Name	Daytime telephone	Relationship to EYH participant

Please give this form to your adult sponsor, or send directly to:

Angela V. Trujillo, EYH06/TC06 Registrar **TEL: (505) 665-3027**
ADWEM-AB, MS E534 **FAX: (505) 606-0805**
Los Alamos National Laboratory **EMAIL: angelavt@lanl.gov**
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